

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number  
**WO 2005/059496 A1**

(51) International Patent Classification<sup>7</sup>: **G01L 25/00**,  
B25B 13/00

(21) International Application Number:  
PCT/SE2004/001896

(22) International Filing Date:  
16 December 2004 (16.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0303428-7 19 December 2003 (19.12.2003) SE

(71) Applicant (for all designated States except US): **ATLAS  
COPCO TOOLS AB** [SE/SE]; S-105 23 Stockholm (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **JOHNSON, Anders,  
Rolf, Mikael** [SE/SE]; Lilla vägen 6, S-142 63, Trångsund  
(SE).

(74) Agent: **PANTZAR, Tord**; c/o Atlas Copco Tools AB,  
S-105 23 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

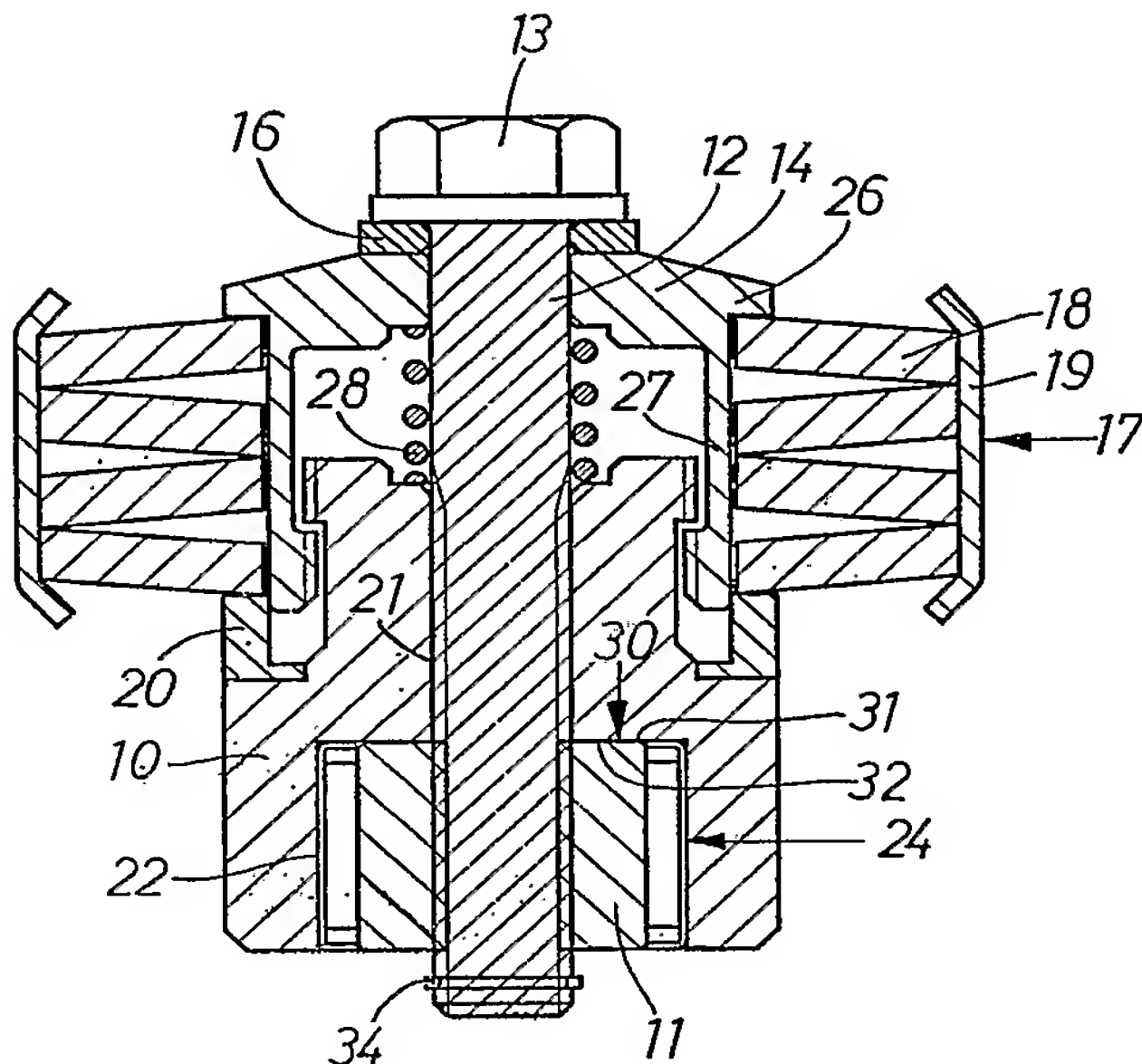
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: **DEVICE FOR TEST RUNNING POWER NUT RUNNERS**



(57) Abstract: A device for test running of power nut  
runners comprises a main body (10;50) with a nut (11;54),  
a screw (12;52) with a nut runner engaging head (13;55),  
a clamping element (14;56) co-operating with the screw  
(12;52), and spring unit (17;59) to be clamped between  
the clamping element (14;56) and the main body (10;50) to  
generate a torque resistance on the screw (12;52), wherein  
a one-way clutch (24;64) is provided between the nut  
(11;54) and the main body (10;50) to prevent rotation  
of the nut (11;54) at rotation of the screw (12;52) in the  
tightening direction and to permit rotation of the nut (11)  
when rotating the screw (12;52) in the loosening direction,  
a friction clutch (30;72,73) between the nut (11;54) and the  
main body (10;50) is arranged to prevent rotation of the nut  
(11;54) during loosening of the screw (12;52), and a lock  
element (34;70) secured to the screw (12;52) is arranged  
to rotationally lock the screw (12;52) to the nut (11;54)  
at continued rotation of the screw (12;52) in the loosening  
direction.